

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).

Claims 2-5. (Canceled)

6. (Currently Amended) ~~The organic electroluminescent device of claim 1~~ An organic electroluminescent device, comprising:

_____ a substrate;

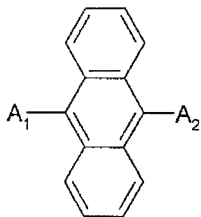
_____ a first and second electrodes formed on the substrate;

_____ a light-emitting layer formed between the first electrode and the second electrode;

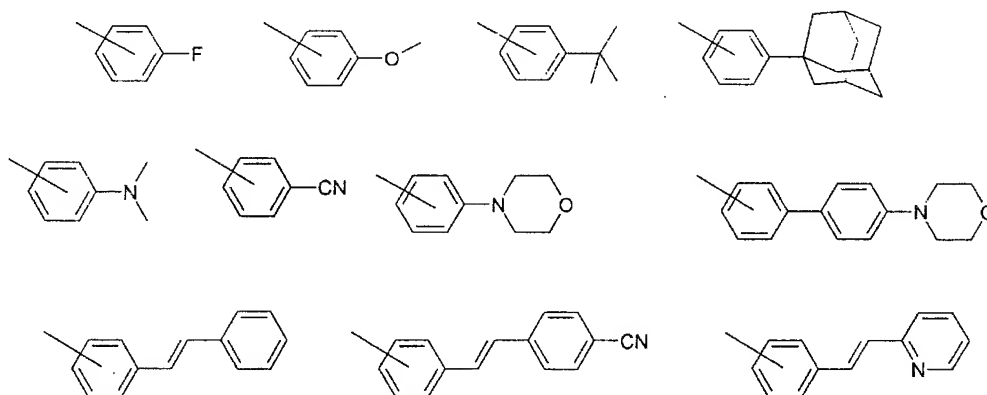
and

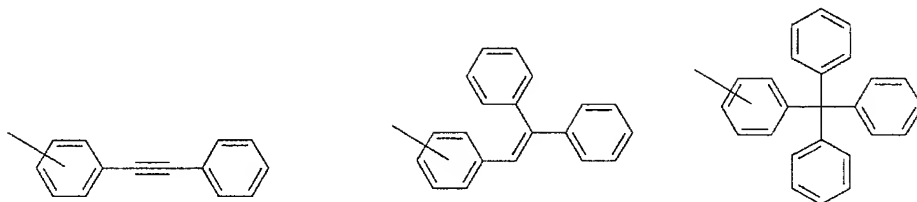
_____ a hole-blocking layer formed between the light-emitting layer and the second electrode and using a material of a chemical formula 1.

[Chemical formula 1]



Wherein, at least one of A1 and A2 is selected from a substituted aromatic group, a heterocyclic group, an aliphatic group, and halogen, , wherein structures of A1 and A2 are the same or different from each other, wherein at least one of A1 and A2 is selected from phenyl, biphenyl, pyridyl, naphthyl, quinolyl, isoquinolyl, fluorenyl, terphenyl, ethyl, propyl, isopropyl, and halogen groups, wherein a substitute of the A1 and A2 is at least one selected from aryl, alkyl, aryloxy, alkoxy, hydroxyl, halogen and cyano group, wherein a substitute of the A1 and A2 is at least one selected from phenyl, biphenyl, triphenyl, phenylethenyl, diphenylethenyl, phenylethynyl, phenoxy, tolyoxy, vinyl, methyl, ethyl, propyl, isopropyl, t-butyl, cyclohexyl, , morpholinyl, methoxy, ethoxy, propoxy, butoxy, dimethylamino, fluorine and chlorine group, wherein at least one of the A1 and A2 is one of the following chemical formulas 2.





7. (Currently Amended) ~~The organic electroluminescent device of claim 1.~~ An organic electroluminescent device, comprising:

a substrate;

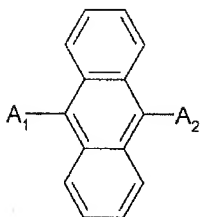
a first and second electrodes formed on the substrate;

a light-emitting layer formed between the first electrode and the second electrode;

and

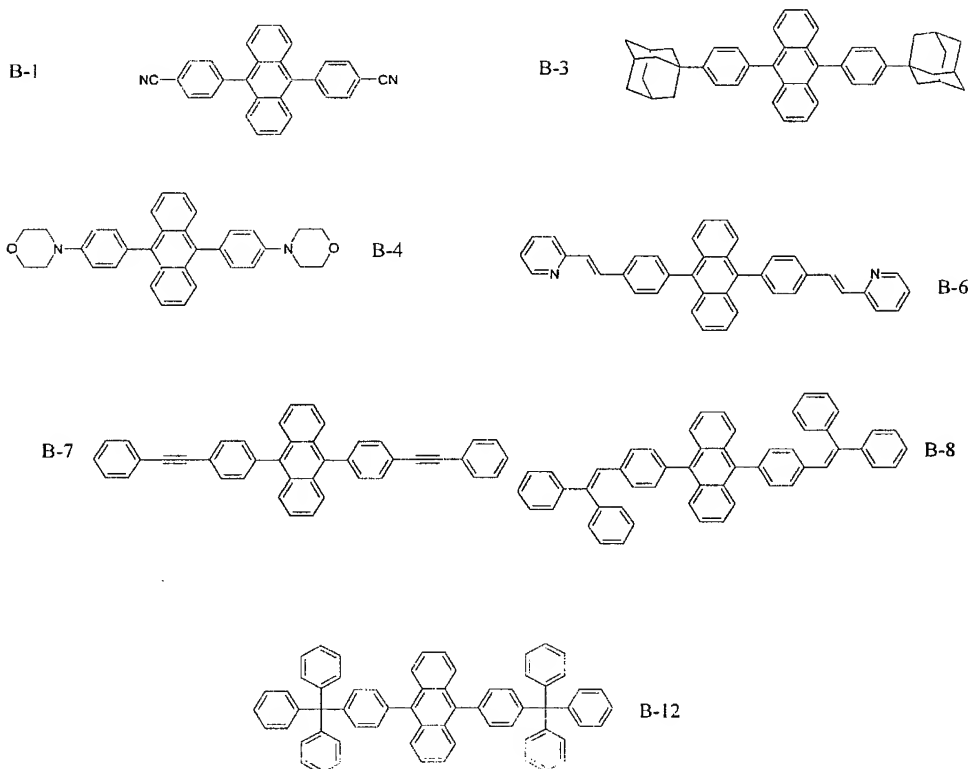
a hole-blocking layer formed between the light-emitting layer and the second electrode and using a material of a chemical formula 1.

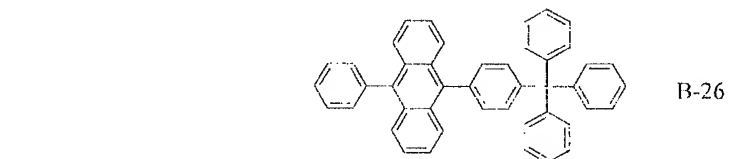
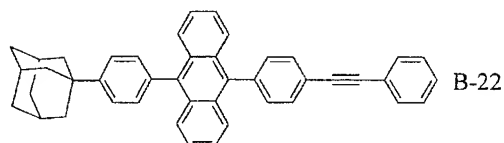
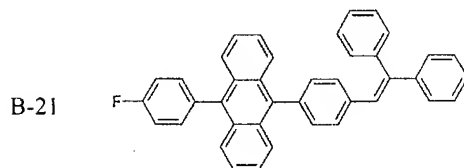
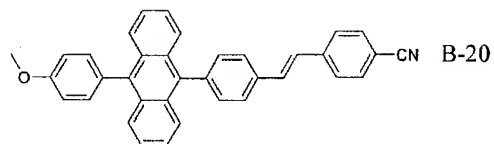
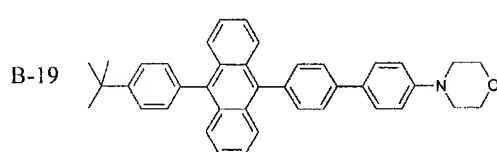
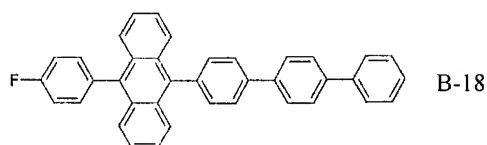
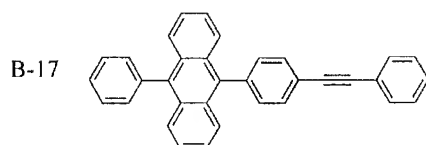
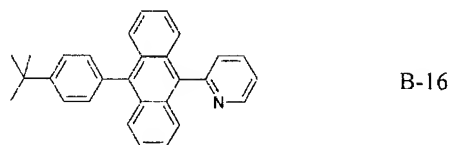
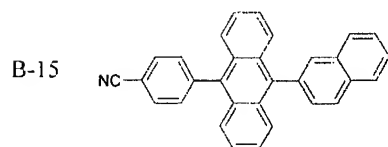
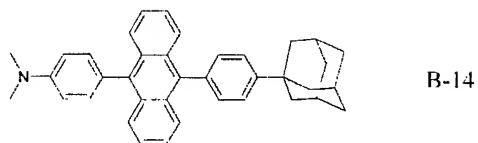
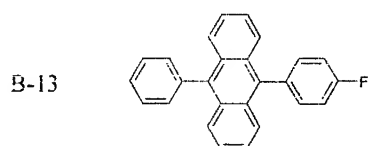
[Chemical formula 1]



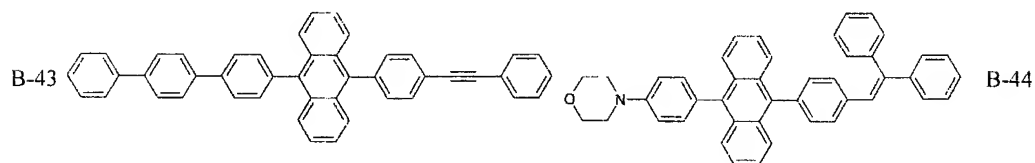
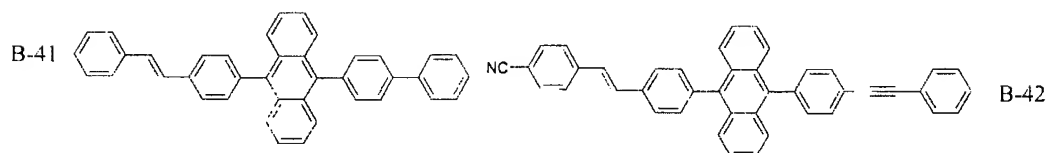
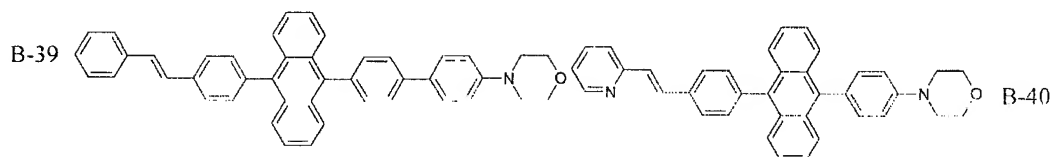
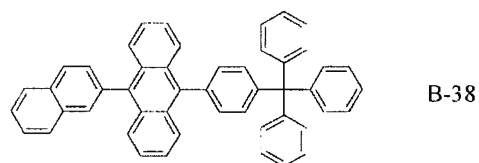
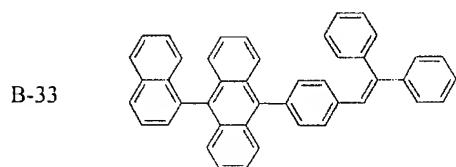
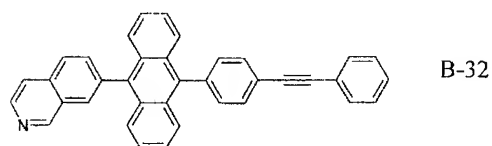
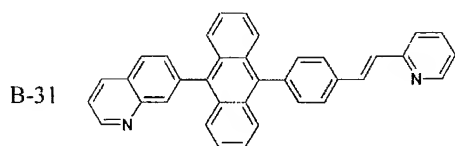
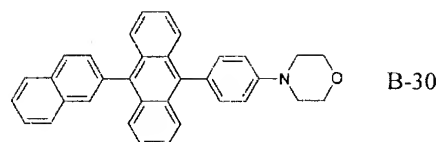
Wherein, at least one of A1 and A2 is selected from a substituted aromatic group, a heterocyclic group, an aliphatic group, and halogen, , wherein structures of A1 and A2 are the same or different from each other, wherein at least one of A1 and A2 is selected from phenyl, biphenyl, pyridyl, naphthyl, quinolyl, isoquinolyl, fluorenyl, terphenyl, ethyl, propyl, isopropyl,

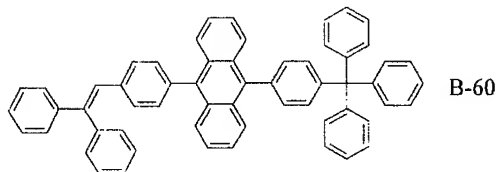
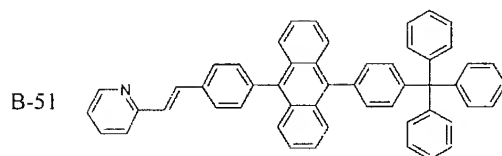
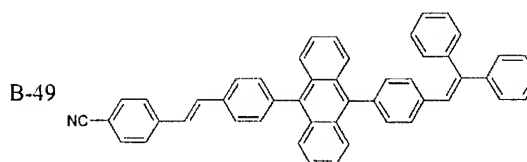
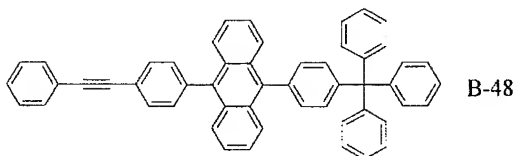
and halogen groups, wherein a substitute of the A1 and A2 is at least one selected from aryl, alkyl, aryloxy, alkoxy, hydroxyl, halogen and cyano group, wherein a substitute of the A1 and A2 is at least one selected from phenyl, biphenyl, triphenyl, phenylethenyl, diphenylethenyl, phenylethynyl, phenoxy, toloxy, vinyl, methyl, ethyl, propyl, isopropyl, t-butyl, cyclohexyl, morpholinyl, methoxy, ethoxy, propoxy, butoxy, dimethylamino, fluorine and chlorine group, wherein a material of the hole-blocking layer is one of the following chemical formulas 3.





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8. (Canceled).

9. (Currently Amended) ~~The organic electroluminescent device of claim 8~~ An organic electroluminescent device, comprising:

a substrate;

a first and second electrodes formed on the substrate;

a light-emitting layer formed between the first electrode and the second electrode;

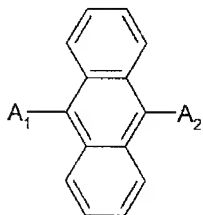
and

a hole-blocking layer formed between the light-emitting layer and the second electrode and using a material of a chemical formula 1.

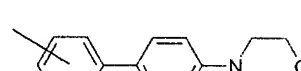
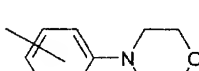
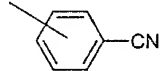
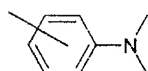
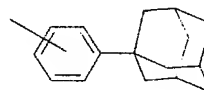
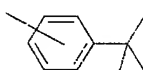
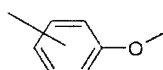
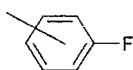
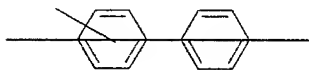
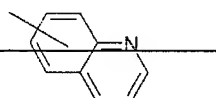
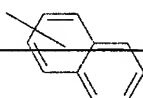
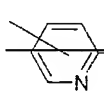
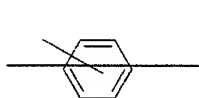
[Chemical formula 1]

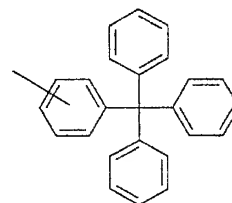
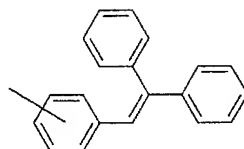
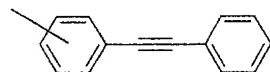
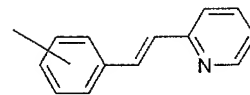
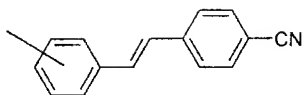
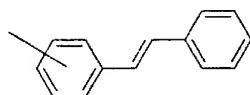
Amendment dated September 25, 2007

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Wherein, at least one of A1 and A2 is selected from a non-substituted aromatic group, a heterocyclic group, an aliphatic group, and halogen, wherein structures of A1 and A2 are the same or different from each other, wherein at least one of A1 and A2 is selected from phenyl, biphenyl, pyridyl, naphthyl, quinolyl, isoquinolyl, fluorenyl, terphenyl, ethyl, propyl, isopropyl, and halogen groups., wherein at least one of the A1 and A2 is one of the following chemical formulas [[5]]2.





10. (Currently Amended) ~~The organic electroluminescent device of claim 8.~~ An organic electroluminescent device, comprising:

_____ a substrate;

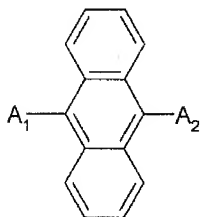
_____ a first and second electrodes formed on the substrate;

_____ a light-emitting layer formed between the first electrode and the second electrode;

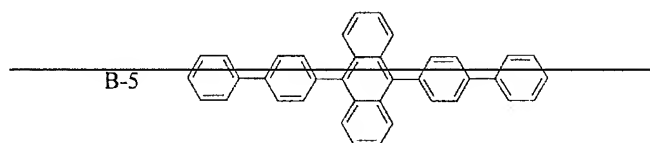
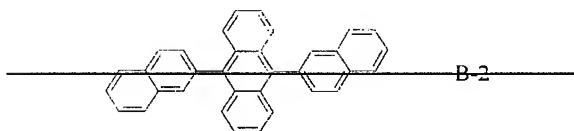
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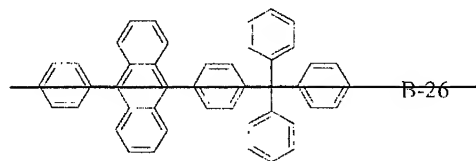
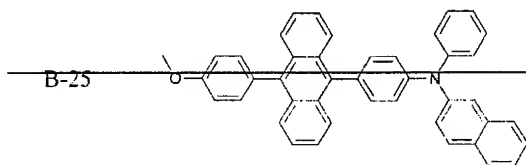
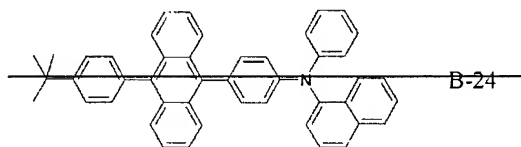
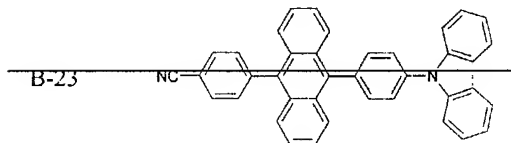
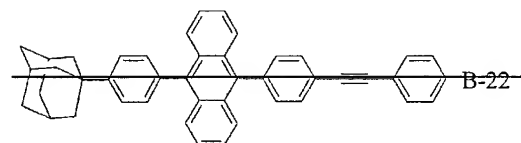
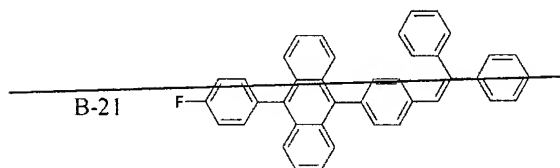
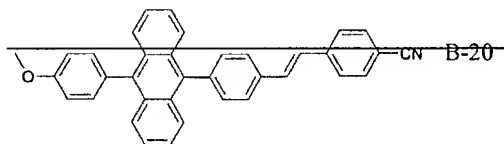
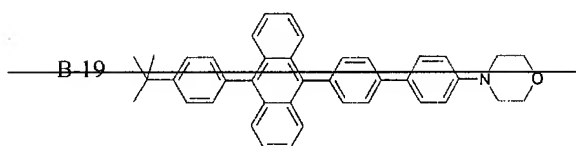
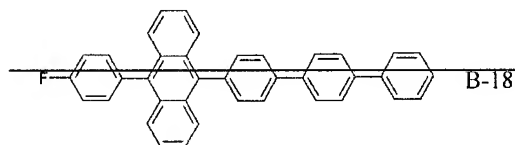
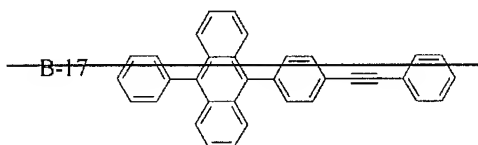
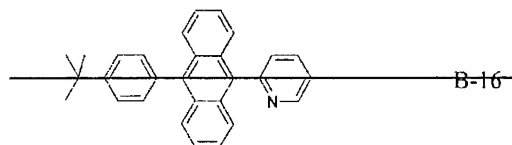
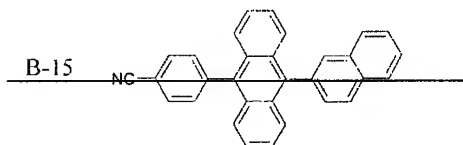
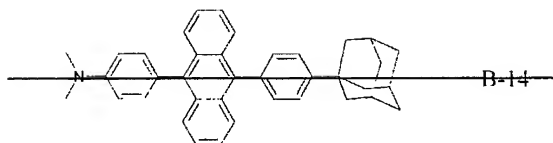
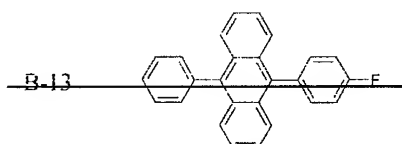
_____ a hole-blocking layer formed between the light-emitting layer and the second electrode and using a material of a chemical formula 1.

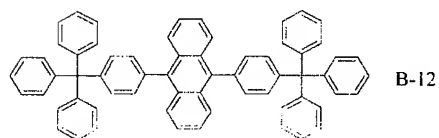
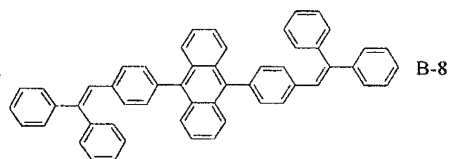
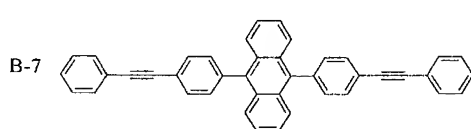
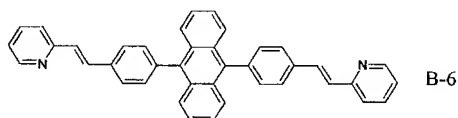
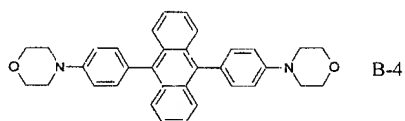
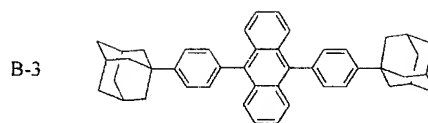
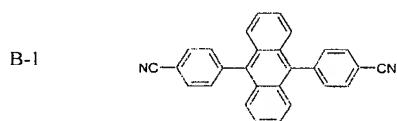
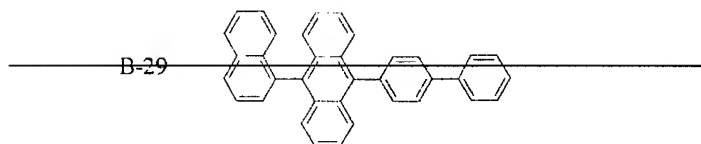
[Chemical formula 1]

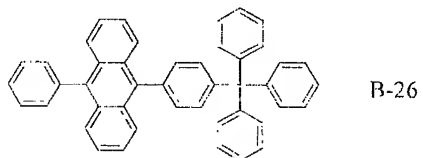
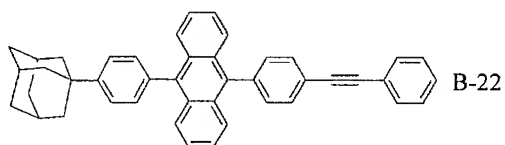
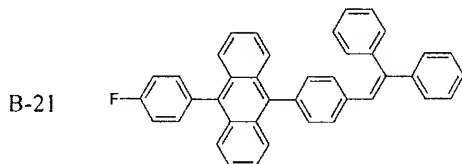
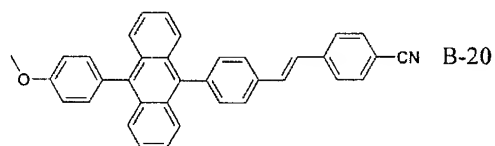
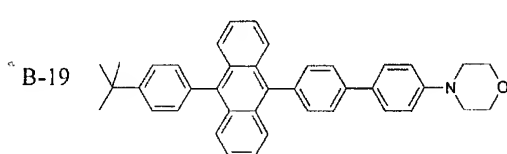
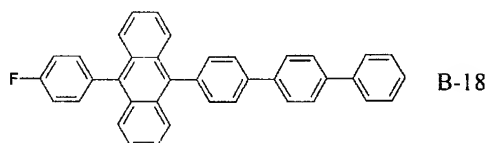
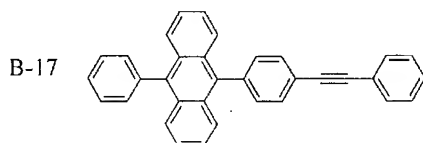
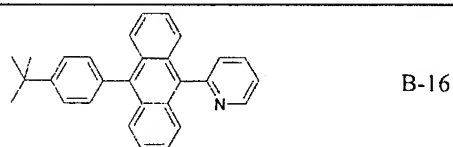
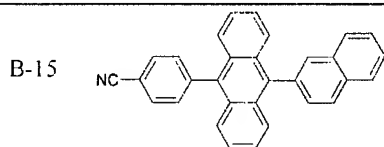
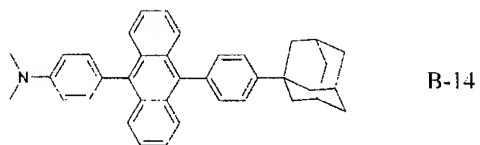
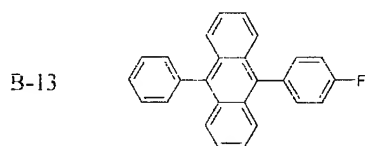


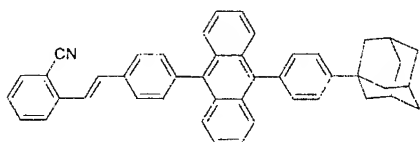
Wherein, at least one of A1 and A2 is selected from a non-substituted aromatic group, a heterocyclic group, an aliphatic group, and halogen, wherein structures of A1 and A2 are the same or different from each other, wherein at least one of A1 and A2 is selected from phenyl, biphenyl, pyridyl, naphthyl, quinolyl, isoquinolyl, fluorenyl, terphenyl, ethyl, propyl, isopropyl, and halogen groups., wherein a material of the hole-blocking layer is one of the following chemical formulas $[[6]]^3$.



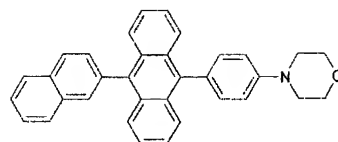




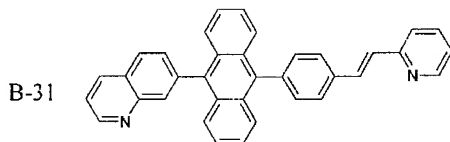




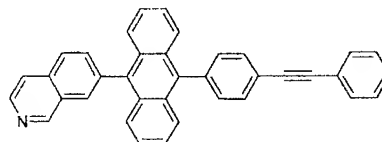
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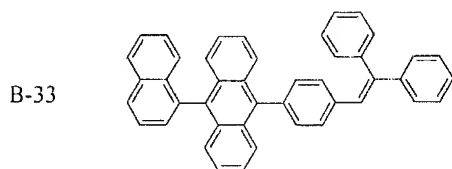
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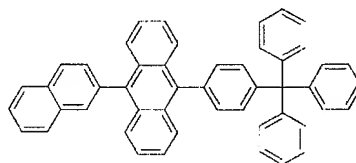
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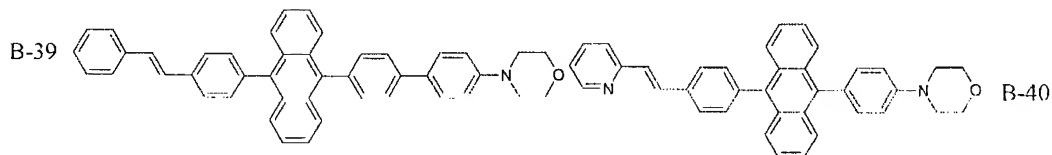
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B-33

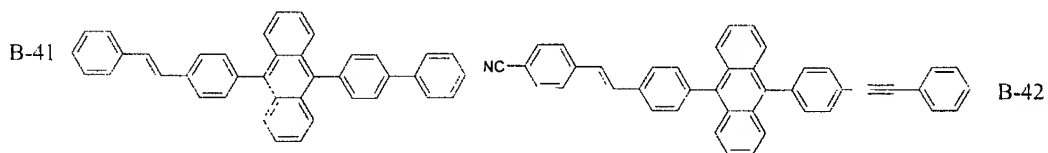


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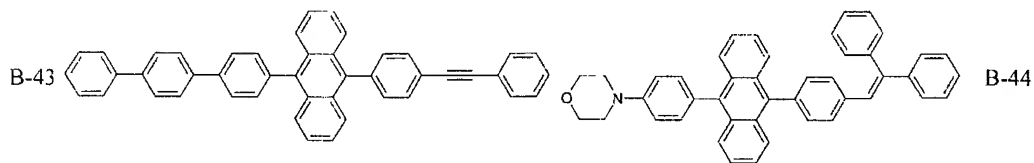
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B-40



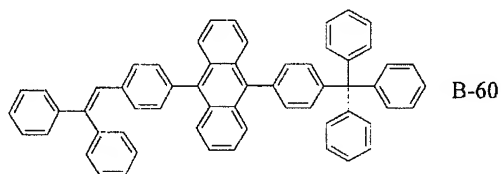
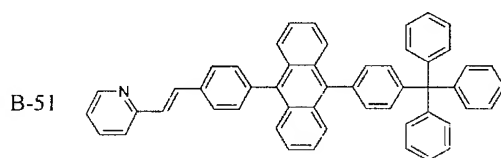
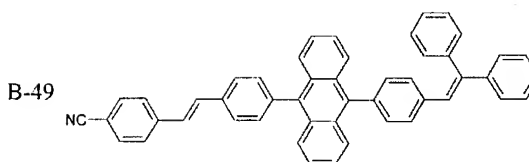
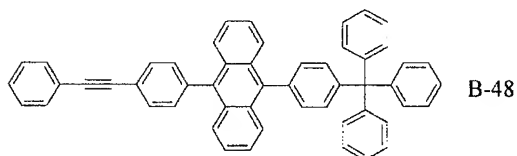
B-41

B-42



B-43

B-44



11. (Canceled).

12. (Currently Amended) ~~The organic electroluminescent device of claim 1~~ An organic electroluminescent device, comprising:

_____ a substrate;

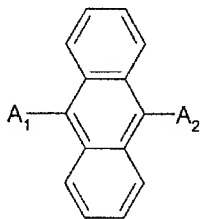
_____ a first and second electrodes formed on the substrate;

_____ a light-emitting layer formed between the first electrode and the second electrode;

and

_____ a hole-blocking layer formed between the light-emitting layer and the second electrode and using a material of a chemical formula 1.

[Chemical formula 1]



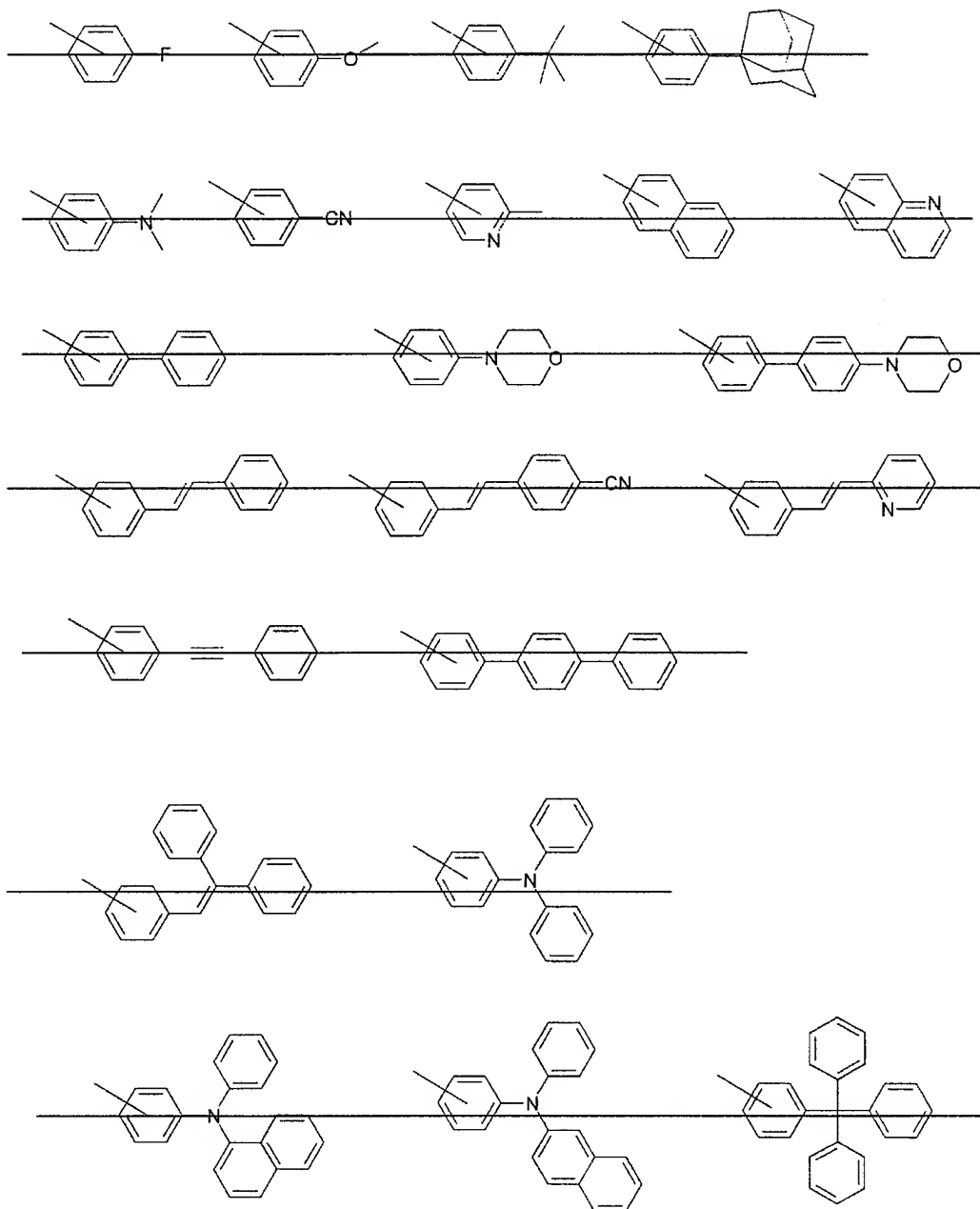
Wherein, at least one of A1 and A2 is selected from a substituted aromatic group, a heterocyclic group, an aliphatic group, and halogen, wherein structures of A1 and A2 are the same or different from each other, wherein at least one of A1 and A2 is selected from phenyl, biphenyl, pyridyl, naphthyl, quinolyl, isoquinolyl, fluorenyl, terphenyl, ethyl, propyl, isopropyl, and halogen groups, wherein a substitute of the A1 and A2 is at least one selected from aryl, alkyl, aryloxy, alkoxy, hydroxyl, halogen and cyano group, wherein a substitute of the A1 and A2 is at least one selected from phenyl, biphenyl, triphenyl, phenylethenyl, diphenylethenyl, phenylethynyl, phenoxy, tolyoxy, vinyl, methyl, ethyl, propyl, isopropyl, t-butyl, cyclohexyl, diphenylamino, morpholinyl, methoxy, ethoxy, propoxy, butoxy, dimethylamino, fluorine and chlorine group, wherein the diphenylamino group does not include a carbazolyl group, wherein at least one of the A1 and A2 is one of the following chemical formulas [[8]]2.

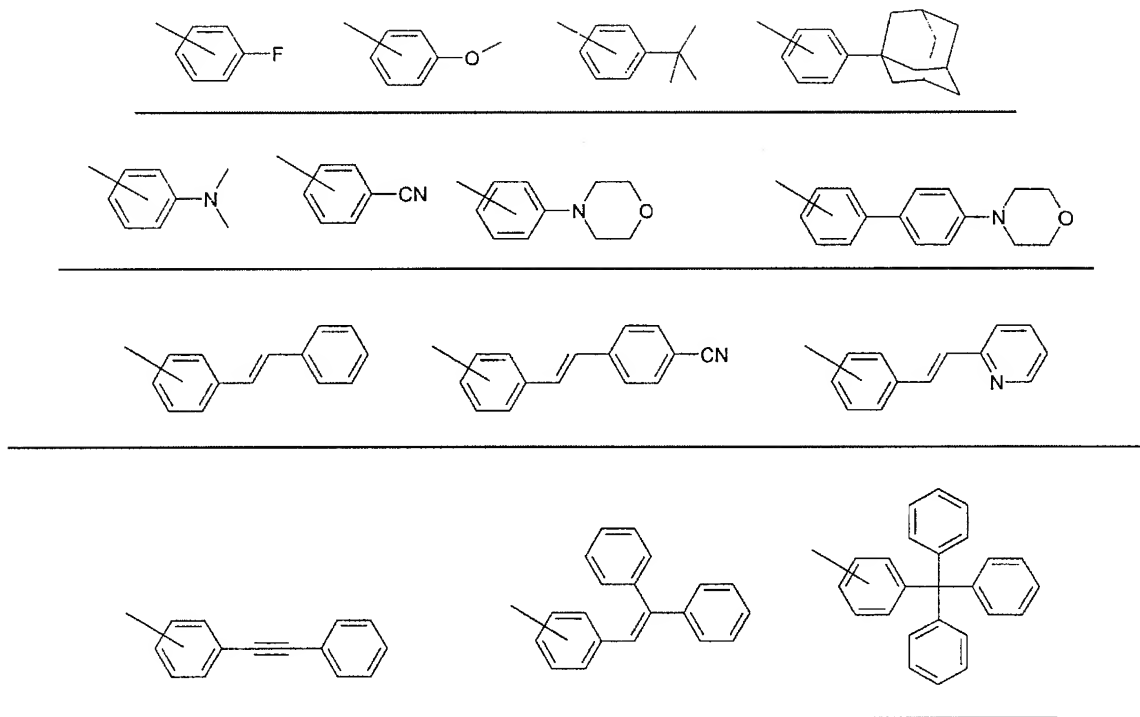
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13. (Currently Amended) ~~The organic electroluminescent device of claim 11~~ An organic electroluminescent device, comprising:

_____ a substrate;

_____ a first and second electrodes formed on the substrate;

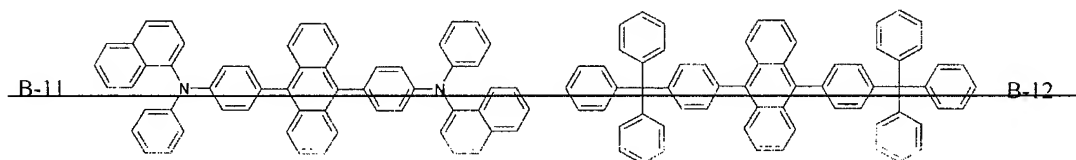
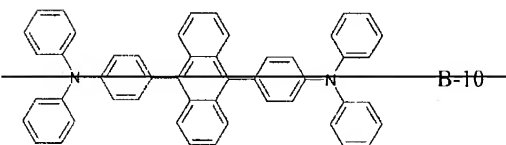
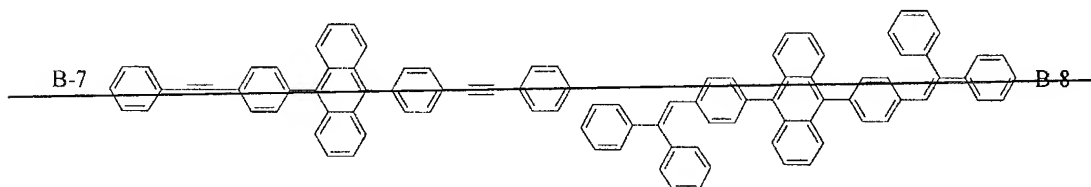
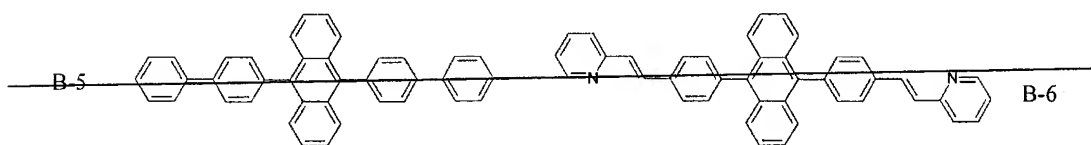
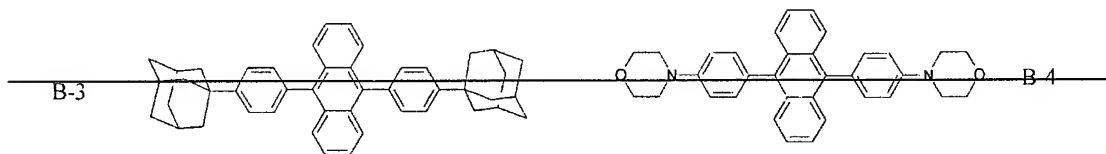
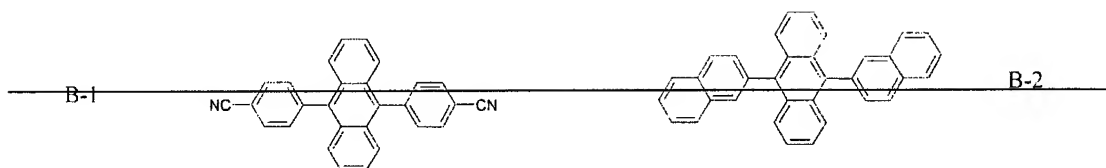
_____ a light-emitting layer formed between the first electrode and the second electrode;

and

_____ a hole-blocking layer formed between the light-emitting layer and the second electrode and using a material of a chemical formula 1.

[Chemical formula 1]

The diagram shows a fluorene molecule, which consists of three fused benzene rings. The central ring is substituted at the 9 and 10 positions with groups labeled A_1 and A_2 , respectively.

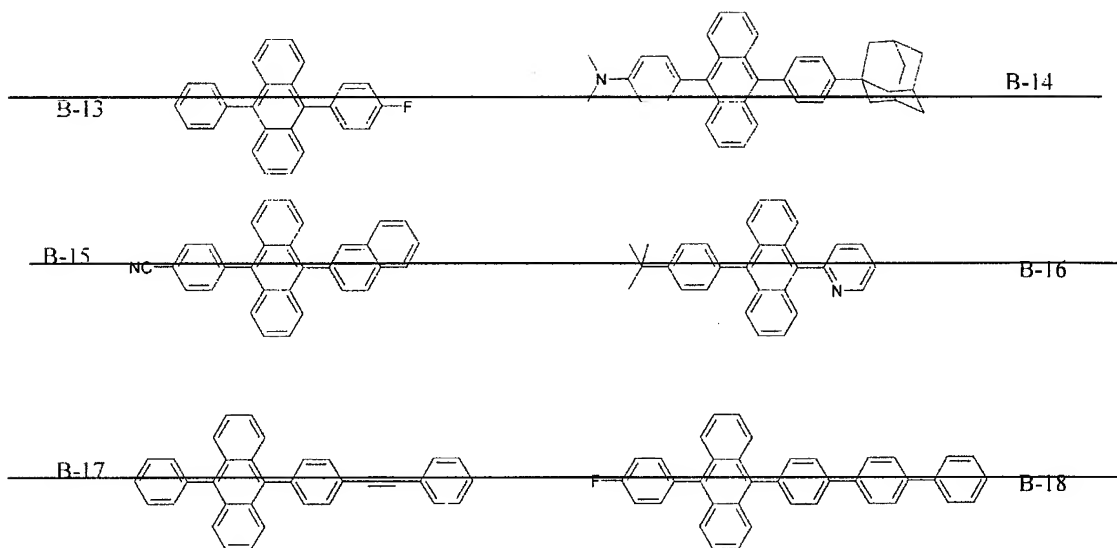


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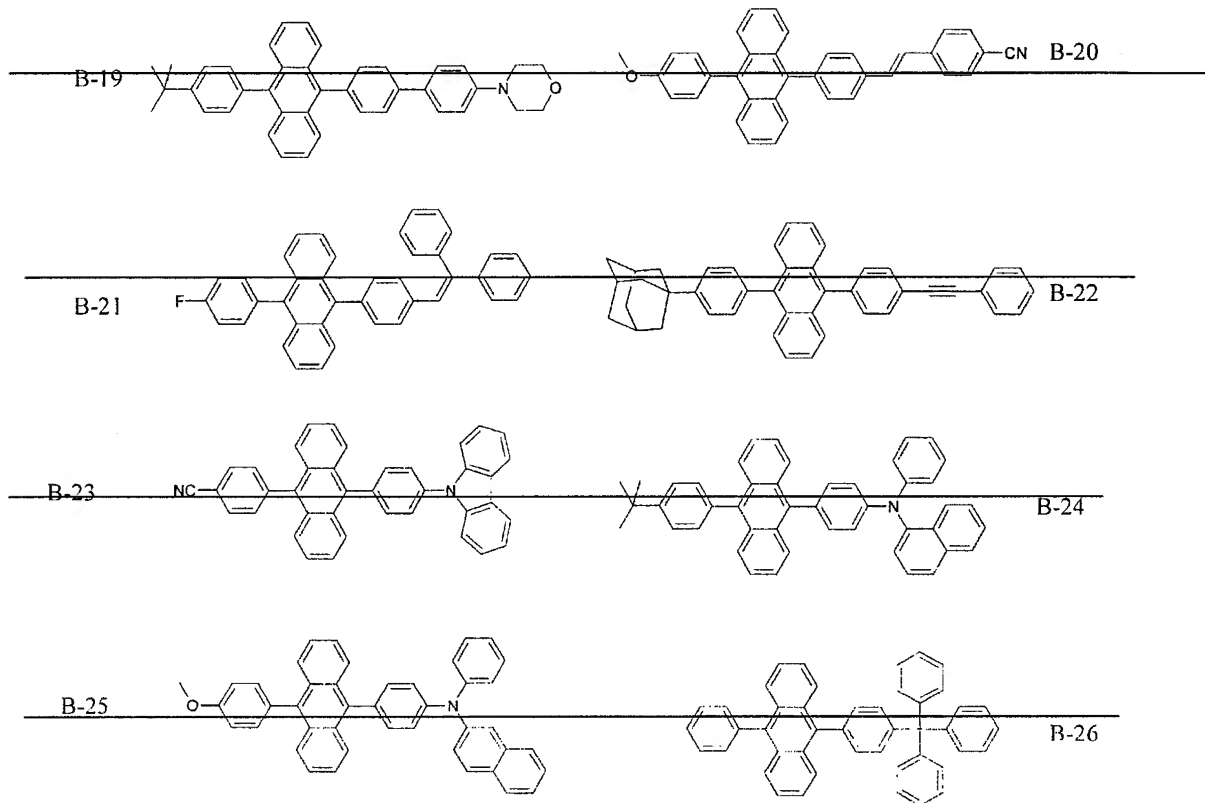


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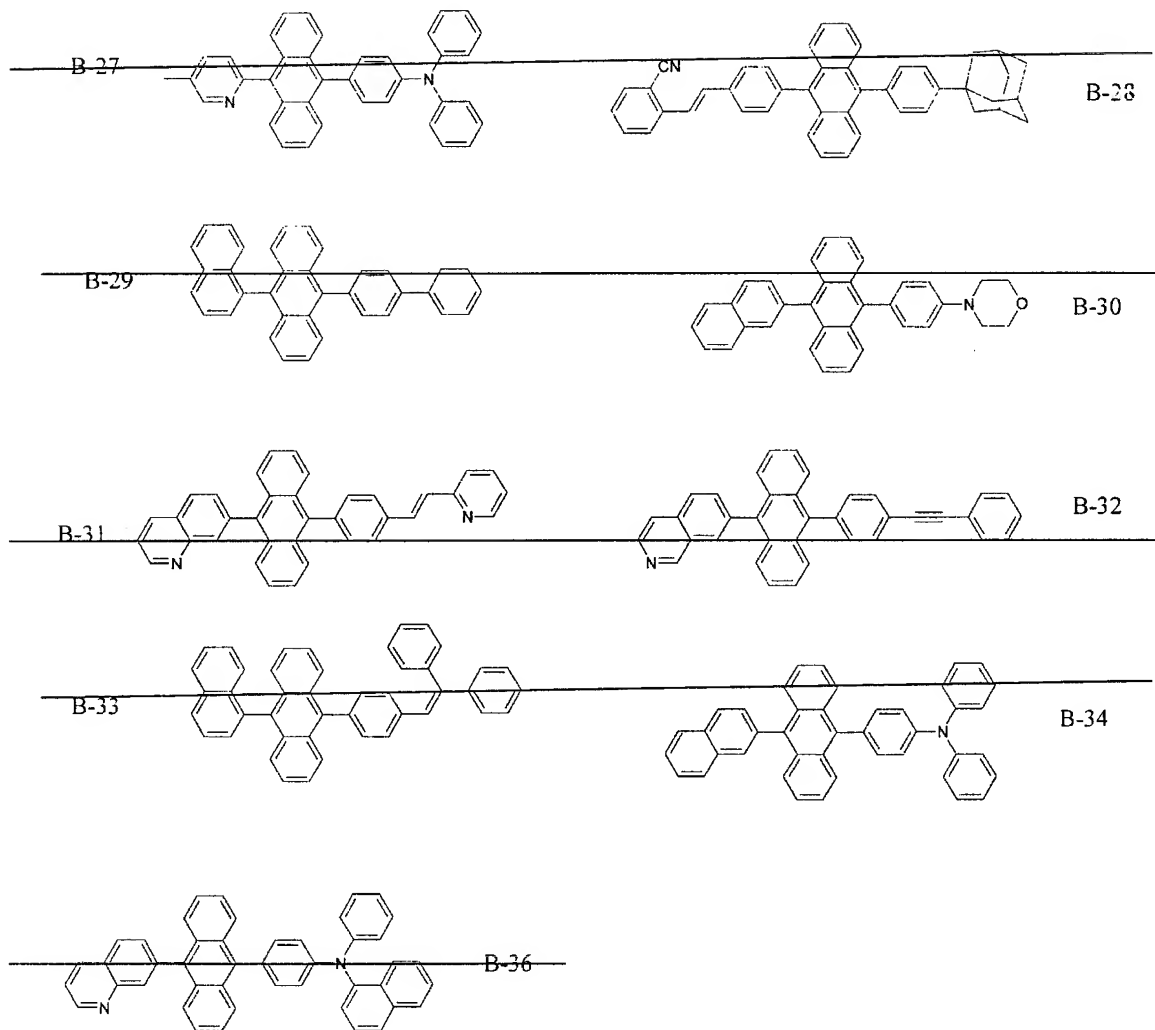


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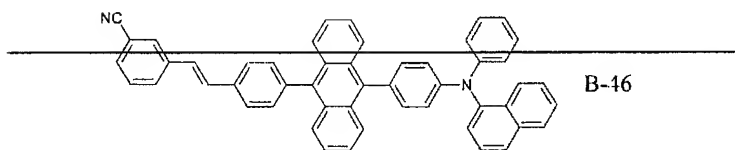
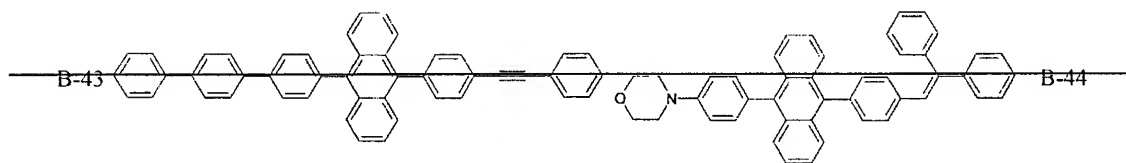
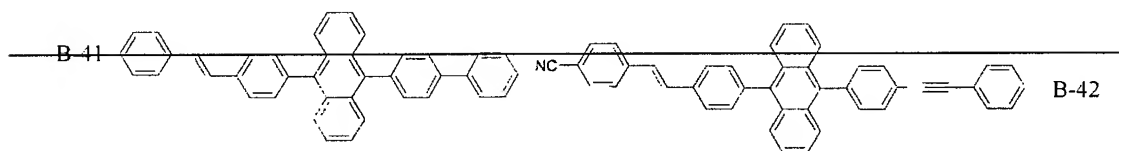
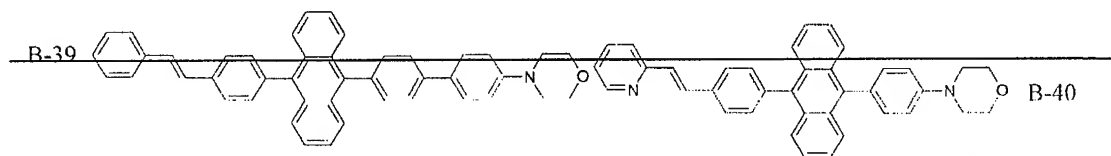
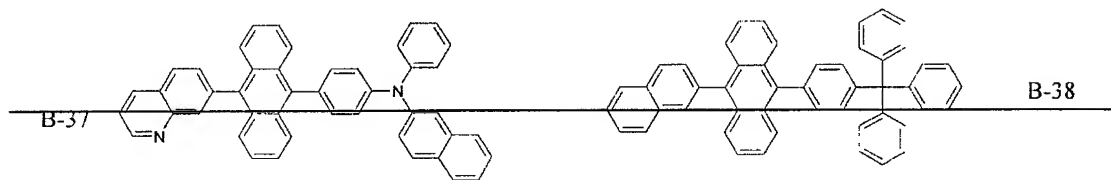
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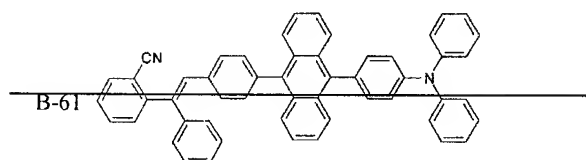
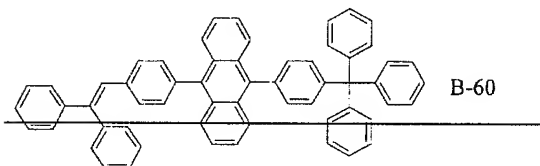
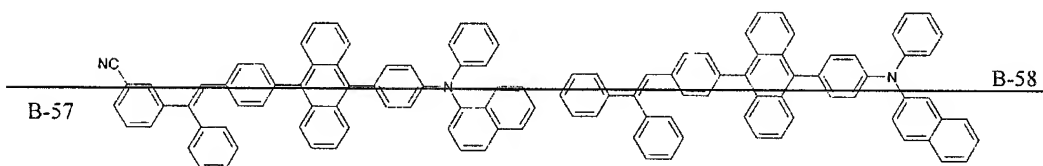
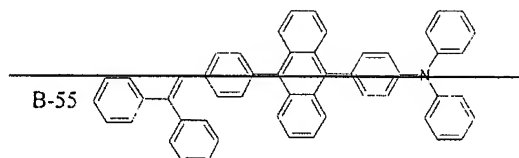
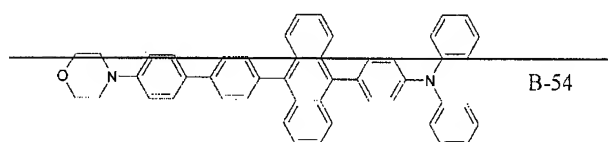
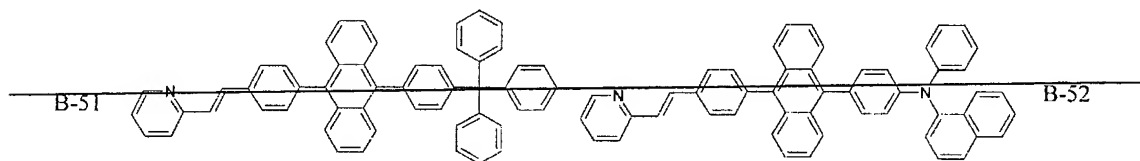
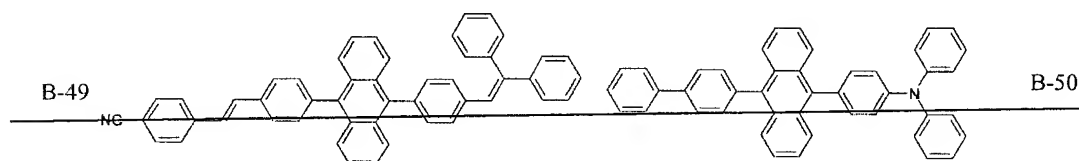
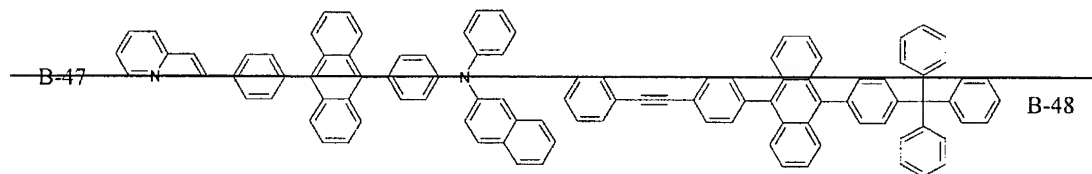


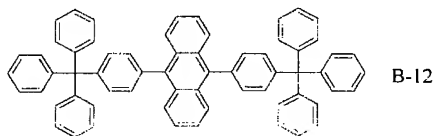
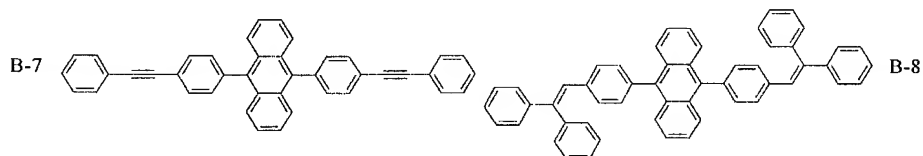
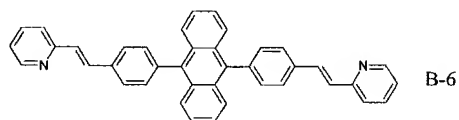
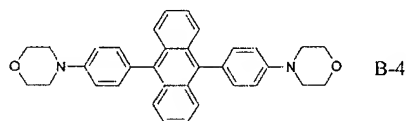
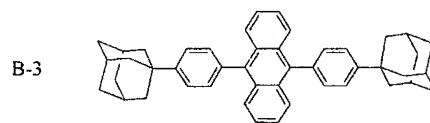
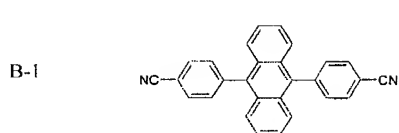
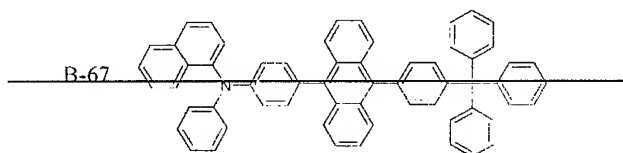
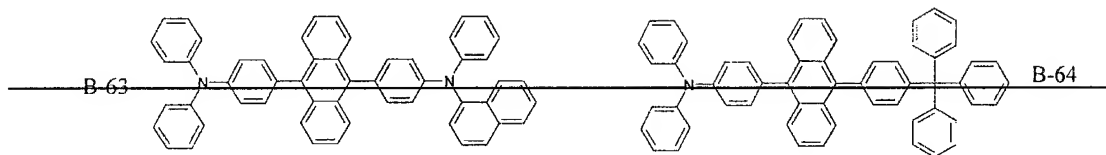
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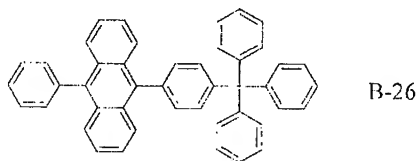
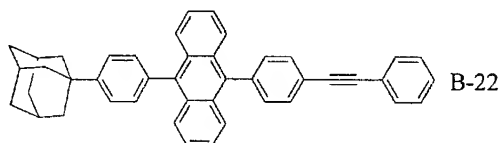
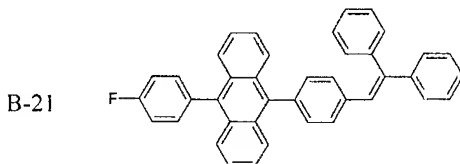
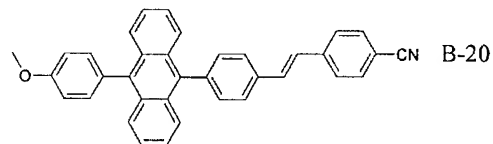
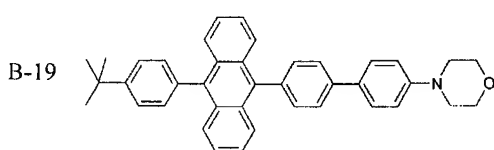
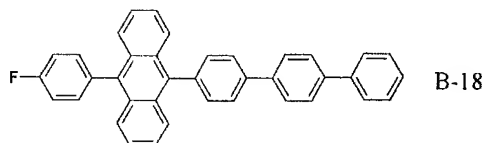
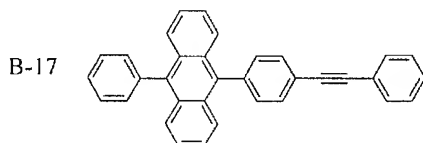
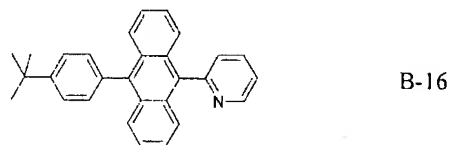
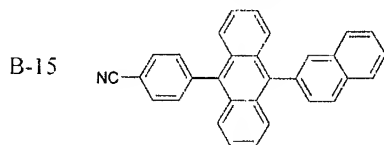
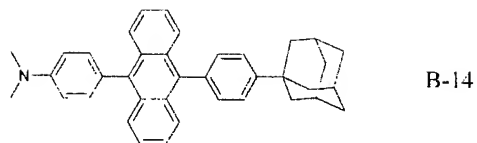
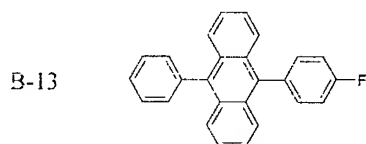
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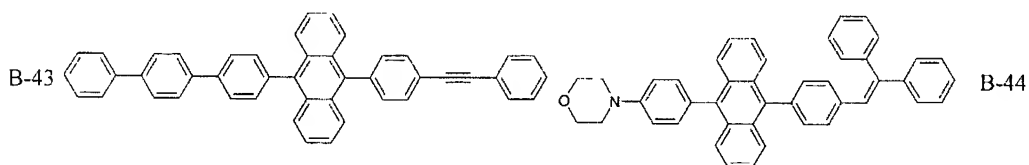
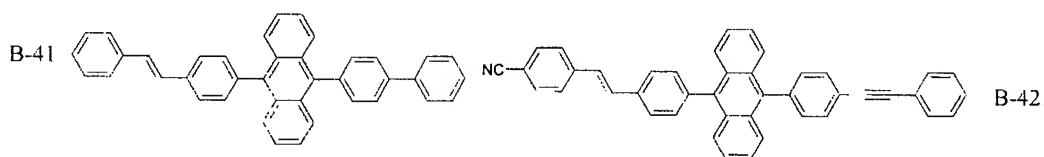
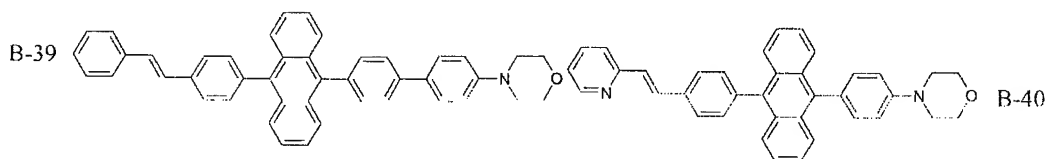
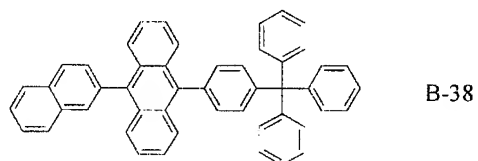
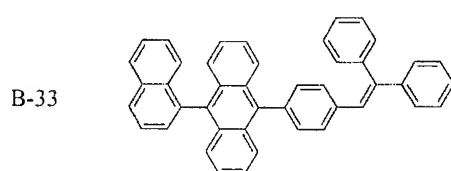
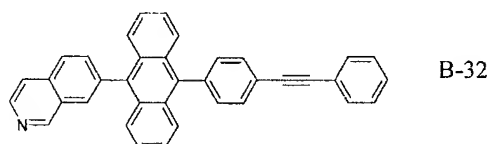
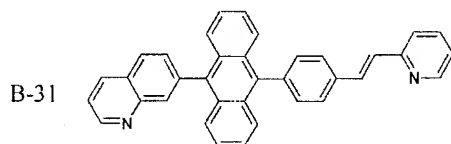
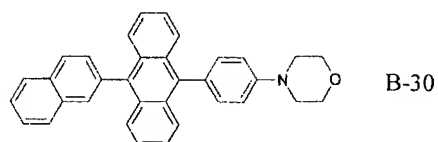
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